

Datasheet: MCA2209T

Description:	RAT ANTI MOUSE CD79b
Specificity:	CD79b
Other names:	B29
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AT107-2
Isotype:	IgG1
Quantity:	25 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			1/50 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

Target Species	Mouse
Species Cross Reactivity	Reacts with: Human, Rat, Pig, Dog, Koala, Tasmanian Devil, Cat Does not react with: Chicken N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen Peptide containing 20 amino acid residues from mouse CD79b conjugated to Keyhole Limpet Hemocyanin (KLH).

External Database Links

UniProt:

[P15530](#) [Related reagents](#)

Entrez Gene:

[15985](#) Cd79b [Related reagents](#)

Synonyms Igb

Fusion Partners Spleen cells from immunised rat were fused with cells of the mouse NS-1 myeloma cell line.

Specificity **Rat anti Mouse CD79b antibody, clone AT107-2** recognizes a cytoplasmic region of mouse and human CD79b, a cell surface antigen expressed by B lymphocytes. The CD79b molecule (also known as Ig beta and B29) associates with CD79a to form a heterodimer that is non-covalently linked to surface immunoglobulin, forming the B-cell receptor (BCR) complex.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

Western Blotting This clone is suitable for use in Western blotting applications. Bio-Rad recommend the use of [MCA2209](#) for this purpose.

References

1. Dornan, D. *et al.* (2009) Therapeutic potential of an anti-CD79b antibody-drug conjugate, anti-CD79b-vc-MMAE, for the treatment of non-Hodgkin lymphoma. [Blood. 114: 2721-9.](#)
 2. Vendel, A.C. *et al.* (2009) B and T lymphocyte attenuator regulates B cell receptor signaling by targeting Syk and BLNK. [J Immunol. 182: 1509-17](#)
 3. Poggi, A. *et al.* (2016) Prognostic significance of Ki67 evaluated by flow cytometry in dogs with high-grade B-cell lymphoma. [Vet Comp Oncol. Jan 21. \[Epub ahead of print\]](#)
 4. Kreiss, A. *et al.* (2009) A histological and immunohistochemical analysis of lymphoid tissues of the Tasmanian devil. [Anat Rec \(Hoboken\). 292: 611-20.](#)
 5. Lau, Q. *et al.* (2012) Expression and in vitro upregulation of MHCII in koala lymphocytes. [Vet Immunol Immunopathol. 147: 35-43.](#)
 6. Kandasamy S *et al.* (2014) Prenatal vitamin A deficiency impairs adaptive immune responses to pentavalent rotavirus vaccine (RotaTeq®) in a neonatal gnotobiotic pig model. [Vaccine. 32 \(7\): 816-24.](#)
 7. Whitney, J.L. *et al.* (2016) Immunohistochemical Analysis of Leucocyte Subsets in the Sinonasal Mucosa of Cats with Upper Respiratory Tract Aspergillosis. [J Comp Pathol. Aug 26. pii: S0021-9975\(16\)30103-7. \[Epub ahead of print\]](#)
 8. McCurdy, P. *et al.* (2014) Acute lymphoblastic leukemia in a pygmy hippopotamus (*Hexaprotodon liberiensis*). [J Zoo Wildl Med. 45 \(4\): 906-10.](#)
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Further Reading

1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)
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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend

microcentrifugation before use.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10057 available at: 10057: https://www.bio-rad-antibodies.com/uploads/MSDS/10057.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA1211\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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